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DIALOG(R)File 351:Derwent WPI

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010137014 **Image available**

WPI Acc No: 1995-038265/199506

Related WPI Acc No: 1995-038264

XRPX Acc No: N95-030321

Dental X-ray diagnostic device - has height adjustment and pivoting of X-ray source about vertical and horizontal axes, for examination along directions of projection lying in different planes

Patent Assignee: SIRONA DENTAL SYSTEMS GMBH & CO KG (SIRO-N); SIEMENS AG (SIEI)

Inventor: FRANETZKI M; GUENTHER W; PLOETZ J; DOEBERT M; HUEBECK E;

SCHULZE-GANZLIN U

Number of Countries: 005 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 632995	A1	19950111	EP 94109424	A	19940617	199506 B
US 5511106	A	19960423	US 94269058	A	19940630	199622
EP 632995	B1	19990421	EP 94109424	A	19940617	199920
DE 59408128	G	19990527	DE 508128	A	19940617	199927
			EP 94109424	A	19940617	

Priority Applications (No Type Date): EP 94108334 A 19940530; DE 4322483 A 19930706

Cited Patents: DE 3930022; EP 166567; EP 229971; EP 262500; EP 279293; EP 35307; US 5214686

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 632995	A1	G	21	A61B-006/14	
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Designated States (Regional): DE FR IT SE

US 5511106	A		20	A61B-006/03	
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EP 632995	B1	G		A61B-006/14	
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Designated States (Regional): DE FR IT SE

DE 59408128	G			A61B-006/14	Based on patent EP 632995
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Abstract (Basic): EP 632995 A

The X-ray appts. provides a tomo-synthetic recording of the patient's jaw, using a panoramic unit with an X-ray source (3) and an electronic line camera (4) on diametrically opposite sides. The X-ray source can be adjusted in height and pivoted about vertical and horizontal axes (V, H) to allow an object point to be examined from different directions, lying in respective planes.

Pref. the X-ray source is rotatable in a circular path about a first vertical axis and is rotated simultaneously about a second vertical axis.

ADVANTAGE - Provides simple tomo-synthetic recording of jaw.

Dwg.1/17

Title Terms: DENTAL; X-RAY; DIAGNOSE; DEVICE; HEIGHT; ADJUST; PIVOT; X-RAY; SOURCE; VERTICAL; HORIZONTAL; AXIS; EXAMINATION; DIRECTION; PROJECT; LIE; PLANE

Derwent Class: P31; S05

International Patent Class (Main): A61B-006/03; A61B-006/14

International Patent Class (Additional): A61B-006/00

File Segment: EPI; EngPI

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DIALOG(R) File 351:Derwent WPI

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WPI Acc No: 1987-258145/198737

XRAM Acc No: C87-109218

XRPX Acc No: N87-193298

Dental X-ray diagnostic equipment - comprising swivel mounted multiple diaphragm component fitted with different apertures aligned with central X-ray beam

Patent Assignee: SIEMENS AG (SIEI)

Inventor: DOBERT M; GUNTHER W; HEUBECK E

Number of Countries: 005 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 236790	A	19870916	EP 87102154	A	19870216	198737 B
US 4788699	A	19881129	US 8717544	A	19870224	198850
EP 236790	B	19901017				199042
DE 3765558	G	19901122				199048

Priority Applications (No Type Date): DE 3606654 A 19860228

Cited Patents: DE 2949946; DE 3246114; EP 215757; FR 2243672; FR 2429582; FR 2429584; US 3849649; US 4195229; US 4221971

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 236790	A	G	14		
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Designated States (Regional): DE FR GB IT

US 4788699	A		12		
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EP 236790	B				
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Designated States (Regional): DE FR GB IT

Abstract (Basic): EP 236790 A

Dental X-ray equipment has swivel mounted multiple diaphragm component arranged between X-ray source and film cassette, and is fitted with different apertures which can be aligned with central X-ray beam using adjusting elements. Diaphragm circumference has gearing cooperating with motor drive. A supplementary diaphragm is swivel mounted on shaft facilitating alteration of effective slit-width of orifice of diaphragm. Diaphragm inserts for different apertures are interchangeable. Filter is adjustably supported by multiple diaphragm component for examining more sensitive parts. Swivel axis is pref located at focal point (F) of X-ray source.

USE/ADVANTAGE - The dental X-ray diagnostic equipment can be used to provide panoramic layer images of human jaws. The arrangement provides different images without additional installation expenditure.

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Title Terms: DENTAL; X-RAY; DIAGNOSE; EQUIPMENT; COMPRISE; SWIVEL; MOUNT; MULTIPLE; DIAPHRAGM; COMPONENT; FIT; APERTURE; ALIGN; CENTRAL; X-RAY; BEAM

Derwent Class: K08; P31

International Patent Class (Additional): A61B-006/14; G21K-001/04

File Segment: CPI; EngPI

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